

24251

B. Tech. 5th Semester (Information Technology)

Examination, December-2012

COMPUTER NETWORKS

Paper- IT-305-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions. Q. No. 1 is compulsory and attempt any one question from each section.

1. Explain the following : 20
 - (a) WAN
 - (b) POP, FTP, NNTP, CSMA, VLAN
 - (c) Firewall
 - (d) Fast Ethernet and Gigabit Ethernet.

Section-A

2. What is Network topologies ? Explain it with their advantages and disadvantages. 20
3. (a) What do you mean by Layering architecture of Networks ? Explain. 10
(b) Explain the different types of Network. 10

Section-B

4. Explain TCP/IP reference model with proper diagram. 20

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5. (a) Explain the Internet Protocol Header. 10
(b) Explain the IP addressing. Also explain the subnet addressing. 10

Section-C

6. (a) What do you mean by IEEE 802.3 standard ? Explain. 10
(b) What do you mean by congestion ? How we control the congestion ? 10
7. Explain the following type of routing : 20
(a) Mobile Routing
(b) Hierarchical Routing
(c) Flooding.

Section-D

8. (a) Explain ATM reference model with proper diagram. 10
(b) What is Class of service and Quality of service ? Differentiate. 10
9. (a) What is Frame Relay ? Explain. 10
(b) Explain the term "Performance Management". 10